

WHAT IS CLAIMED IS:

1. An electronic mixed water preparation device (1) comprising:

an operating unit (3) for presetting a nominal value;

an electronic controller unit (6) acting on a control line for preparing mixed water via a mechanical setting element (17) depending on a temperature sensor (13) for detecting an actual value, the electronic controller unit (6) and the mechanical setting element (17) being arranged in one single compact device unit (2) suited for mounting under plaster,

wherein the setting element (17) acts on one single rotatably supported setting body (21), so that a mixture of hot and cold water corresponding with its rotational position and admittable through a hot water inlet (10) and a cold water inlet (11) can be produced.

2. The electronic mixed water preparation device according to claim 1, wherein the control line for detecting the actual value is exclusively in data transmission connection with a temperature sensor (13).

3. The electronic mixed water preparation device according to claim 1, wherein the setting element is a stepping motor actively connected via a transmission (20) with a two-way mixing valve (21) in a mixer body (8), said mixer body (8) comprising one cold water and one hot water connection (10 and 11).

4. The electronic mixed water preparation device according to claim 1, wherein the controller unit (6) comprises a micro-controller (30) having its own computer unit (31), as well as a data memory and a program memory (32, 33), wherein the controller unit (6) is connected to an interface module (5) for connecting diagnostic and/or programming devices.

5. The electronic mixed water preparation device according to claim 1, wherein the operating unit (3) comprises an indicator (26), and an input unit (23, 24, 25).

6. The electronic mixed water preparation device according to claim 5, wherein the indicator is a display comprising at least three alpha-numerical symbols, each with a seven-segment display; and wherein the input unit is a

keyboard with a menu key and at least two selector keys (24 and 25).

7. The electronic mixed water preparation device according to claim 1, wherein one or more water-feeding systems can be connected to the electronic mixed water preparation device (1); and wherein individual water-supplying systems can be selected and controlled via the operating unit (3).